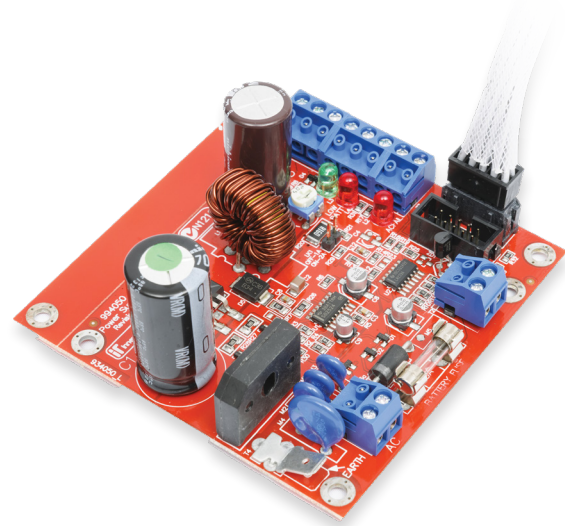


The Standard 2Amp 13.75V DC power supply is a universal power supply which can be used wherever battery backed 12V supplies are required. The Standard 2Amp power supply boasts a highly reliable design that offers exceptional stability when used with the recommended battery type and is also suitable for providing power to card readers including Proximity type reader heads. The Standard 2Amp power supply is factory fitted in Small Inner Range equipment enclosures, or supplied as a PCB module.

## General Purpose Use

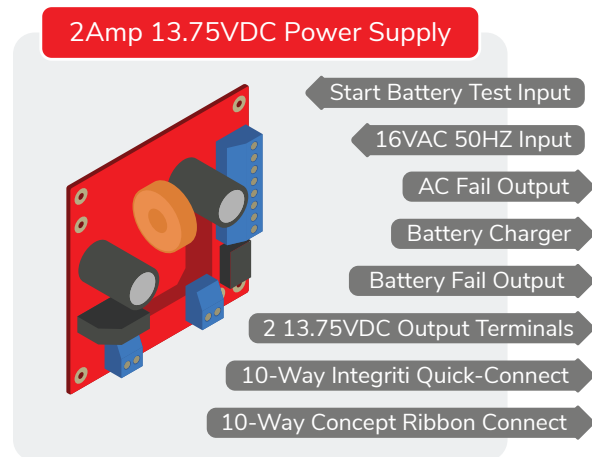
The Standard 2Amp power supply can also be used as a general purpose, battery-backed, 13.75V DC supply to power legacy or 3rd party equipment via the plug-on screw terminals. It is extensively used to power Inner Range modules, detectors, readers and auxiliary devices such as strobes, sounders and locks.



## Features

- 10-way Quick-Connect output for Inner Range modules such as the Standard LAN Access Module (SLAM), Intelligent LAN Access Module (ILAM) and 8 Zone LAN Expander
- Ribbon cable output for Concept Modules, such as the Mini Expander, and the 2 Door Access module
- Separate DC output connections (screw terminals)
- Low-level AC Fail alarm output with built-in 2K2/2K2 EOL resistors
- Low-level Battery Fail alarm output with built-in 2K2/2K2 EOL resistors
- Low-level Trigger Battery Test input
- Small form factor
- Fused battery protection (4Amp)
- LED indication of Output Present, AC Fail and Low Battery
- Can be linked with a second 2Amp power supply to provide a 4Amp or dual-redundant power source
- Can be set to a 1Amp current limit
- 16V AC input (a 3Amp transformer is required)

## Connectivity





### Specifications

#### Physical

Size:	95(L) x 95(W) x 45(D) (mm)
Mounting:	4 x M3 screws to Inner Range chassis clips
Installation Environment:	0°C - 50°C @15% - 90% relative humidity (non-condensing)
Working Temperature Range:	-25°C to +50°C ambient unforced ventilation

#### Battery Alarm Thresholds

Low Battery Alarm:	11.0V DC
Deep Discharge Protection:	10.4V DC
Recovery From Deep Discharge:	12.2V DC

#### Connections

Outputs:	10-way Quick-Connect socket for Inner Range modules
	10-way ribbon cable socket for Concept modules
	2 x common 13.75V DC +/- outputs
	Battery charger connection (for 12V lead acid battery)
	Low-level AC Failure output (open collector output with built-in 2K2/2K2 EOL resistors)
	Low-level Battery Fail output (open collector output with built-in 2K2/2K2 EOL resistors)
	Low-level Battery Fail output (open collector output)
	External Earth terminal for connection to enclosure
Inputs:	Start Battery Test Input Trigger (zero volt dry contact input)

#### LED Indicators

Status Indicators:	Output ON
Fault Indicators:	Battery Low
	AC Fail

#### Power Specifications

Input Voltage:	16V AC, 50hz
Input Current:	2Amp with 3Amp transformer fitted and LK1 jumper fitted
	1.5Amp with 1.5Amp plug-pack fitted and LK1 jumper removed
Output Voltage:	13.75V DC +/-5%, up to 2Amp. (battery fully charged)
Max Output Current:	2Amp with LK1 fitted
	1Amp with LK1 removed
Switching Frequency:	370 kHz. approx.
Load Regulation:	+0 / -500mV @ Iout = 0.1A to 2.0A
Conversion Efficiency:	85%. approx.
Output Ripple:	100mV RMS max. @ Iout = 2A

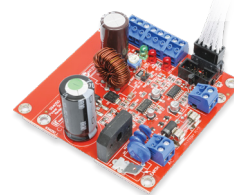
#### Battery Types

Recommended Battery:	1 x 7Ah, 9Ah or 18Ah 12V Sealed Lead Acid Only
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#### Compliance

Electrical	 
Environmental	 

### Ordering Options



**996090PCB&K**  
Standard 2Amp  
13.75V DC Power Supply  
Module, PSU only



**995200PE2**  
Small Enclosure fitted  
with Standard 2Amp  
13.75V DC Power  
Supply and 3Amp mains  
transformer

**995201PE2**  
Medium Enclosure  
with 2Amp PSU

**995203PE2**  
Xlarge Enclosure with  
2Amp PSU

**995220PE2**  
Rack Drawer with  
2Amp PSU

#### Power Supply Cables

**996792**  
PSU patch lead,  
430mm 10way to  
10way header  
(Supports SMART PSU  
status monitoring with  
Inner Range modules  
and 3 & 8Amp SMART  
PSU's)



#### 996794

PSU patch lead,  
500mm 10way to  
Red&Black flying  
leads  
(Does not support  
SMART PSU status  
monitoring with Inner  
Range modules)

